

B-CONTROL MICRO



› B-CONTROL MICRO

Human Machine Interface:



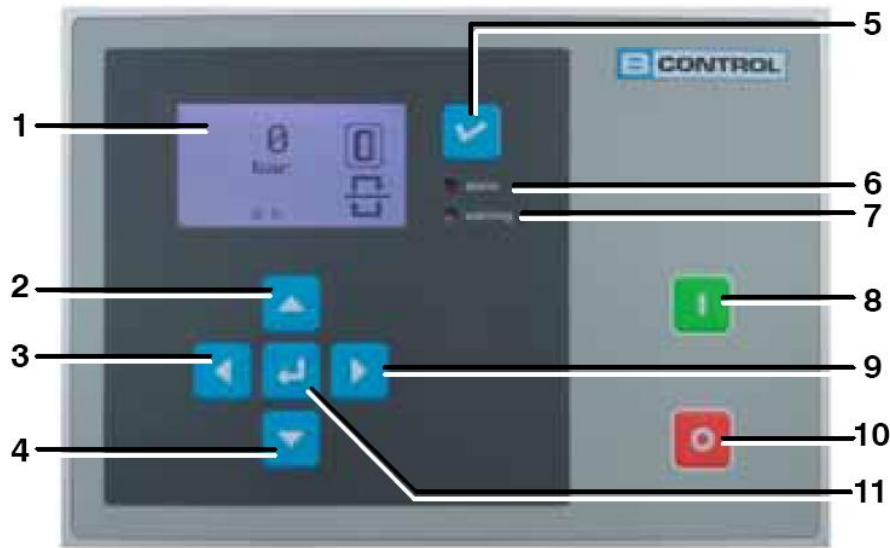
The B-CONTROL MICRO is the standard compressor control:

- Verticus 5 (BA & IND)*
- PE-VE



**Not GIB15.4-15-5, C, CTA, HTA Range*

➤ B-CONTROL MICRO

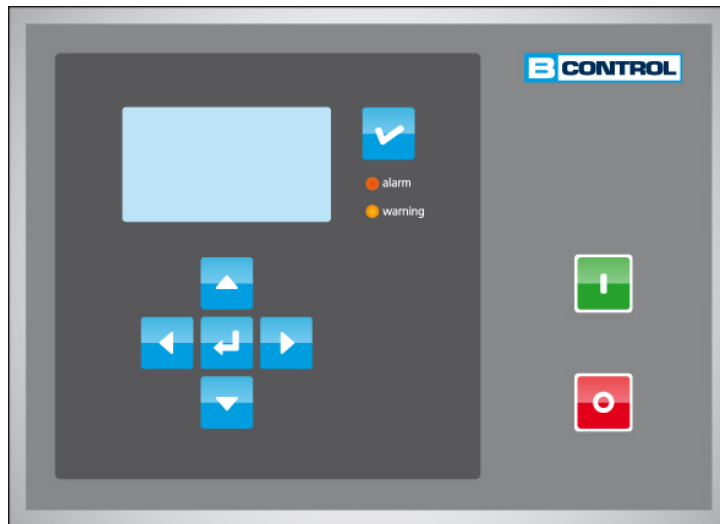


- 1 Display
- 2 Control button upwards
- 3 Control button left
- 4 Control button downwards
- 5 Reset/screen back
- 6 Alarm warning lamp
- 7 Warning lamp
- 8 On button
- 9 Control button right
- 10 Off button
- 11 Enter button

› B-CONTROL MICRO

Technical Data:	
Ambient temperature range	-10°C to +60°C (5-90% humidity; non-condensing)
Control voltage	24VDC
Protection class control cabinet	IP55
Protection class display	IP65
Display	LCD (graphic display with background lighting)

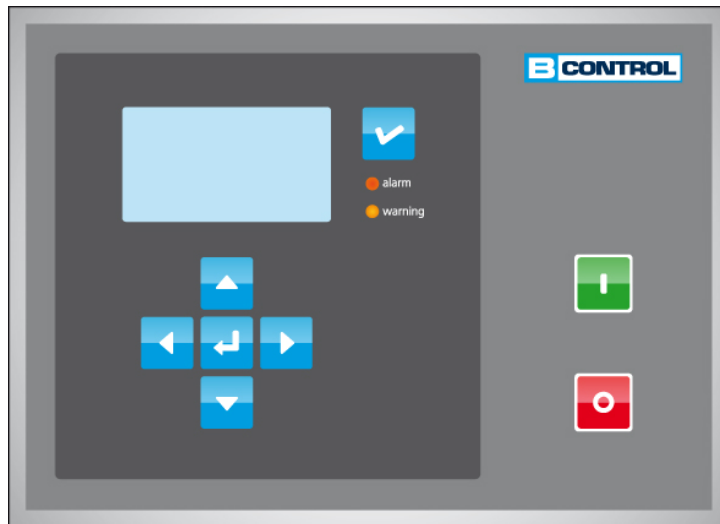
› B-CONTROL MICRO



Main Features:

- Indication of actual pressure, working hours and operation mode
 - Semi and fully automatic operation options
 - Common SI-units can be chosen for pressure and temperature
 - Indication by symbols
- Service interval indication
- Logbook with up to 100 entries
- Easy software update and upload by SD card
 - For software upload no B-Manager required
- Compressor start/stop depending on final pressure and/or filling level of a helium balloon (digital signal)

› B-CONTROL MICRO



Main Features:

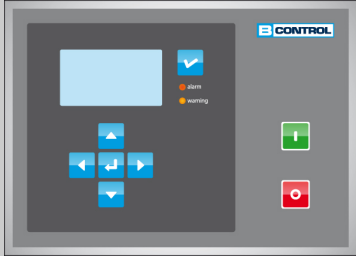
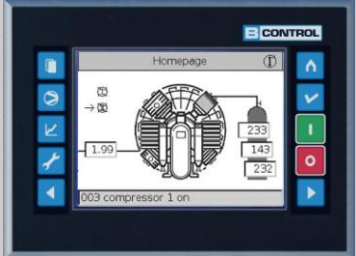
- Cycle counter
 - Safety: inform the operator when to exchange the final separator
- Oil pressure monitoring
 - Protect from wrong rotation
- Securus monitoring
 - Safety: In case of saturated filter cartridge compressor switches off (Sec+)
- Temperature monitoring
 - When temperature of last stage gets too high (compressor switch off)
- CANbus included for
 - Connection with a Seccant (available soon)
 - Connection with Securus+

➤ B-CONTROL MICRO

Advantages:

- + Easy to operate using symbols (for main operation menu)
- + Easy and precise setting of final pressure, start pressure, etc.
- + Maintenance information are shown in the display
- + Monitoring of main function / automatic shut down in case of failure
- + Logbook function with failure history
- + Different password access levels for operator and service
- + Software update / upload by SD-card, no special software (B-Manager) required
- + Service feature: all valves and contactors can be piloted manually with the B-CONTROL MICRO

➤ B-CONTROL MICRO – Comparison

	B-CONTROL MICRO	B-CONTROL II
Verticus 5 (Premium Line Breathing Air / Industry)	●	○
PE-VE F03 (Poseidon Edition)	●	–
	 <p>The B-CONTROL MICRO control panel features a central blue touch screen with a checkmark icon and status indicators for 'alarm' and 'warning'. Below the screen is a blue directional pad and a red emergency stop button. A green power button is located to the right of the screen.</p>	 <p>The B-CONTROL II control panel features a larger color touch screen displaying a 'Homepage' with a compressor schematic, pressure gauges (1.99, 233, 143, 232), and the text '003 compressor 1 on'. It includes a blue directional pad on the left and a red emergency stop button on the right.</p>

- Standard
- Option
- Not available
- * Available soon

➤ B-CONTROL MICRO – Comparison

Verticus Range	B-CONTROL MICRO	B-CONTROL basic	B-CONTROL II
Display show symbols	●	–	●
Display English text message	●	●	●
Other languages available	–	●	●
CANBUS for Seccant connection	●	●	●
Securus+ connection by CANBUS	●	–	●
Combined Main switch + emergency stop button	●	–	●
Motor with PTC monitoring instead of separate motor protection switch	●	–	–*
Combined temperature monitoring of last stage and ambient temperature	●	–	○

Not available any longer

- Standard
- Option
- Not available
- * Available soon

➤ B-CONTROL MICRO – Comparison

Verticus Range	B-CONTROL MICRO	B-CONTROL basic	B-CONTROL II
Software upload/update	SD card	B-Manager	CF card / B-Manager
Customized software modification	–	○	○
Active (CANBUS) interconnected operation (Master)	–	○	●
Active (CANBUS) interconnected operation (Slave)	–	●	●
Passive interconnected operation (Master)	–	–	●
Passive interconnected operation (Slave)	●	●	●
Helium application: analogue start signal (4-20mA) from level indicator	–	○	●
Monitoring of inter stage pressure / temperature	–	–	○

Not available any longer

- Standard
- Option
- Not available
- * Available soon

› B-CONTROL MICRO – Comparison

Verticus Range	B-CONTROL MICRO	B-CONTROL basic	B-CONTROL II
B-Messenger II	–	–	○
Modbus RTU	–	–	●
Profibus dp	–	–	○
CANBUS	–	–	●
CANBUS (internal use)	●	●	●

Not available any longer

- Standard
- Option
- Not available
- * Available soon

➤ B-CONTROL MICRO – Summary

Display of:

- Operating data / status of compressor unit
- Hour meter
- Configuration parameters
- Maintenance survey
- Error indications / logbook

Operating modes:

- Fully automatic – start and shut-off pressure variably adjustable
- Semi automatic – start manually, shut-off pressure variably adjustable
- Leakage and final safety valve test

➤ B-CONTROL MICRO – Summary

Supervision:

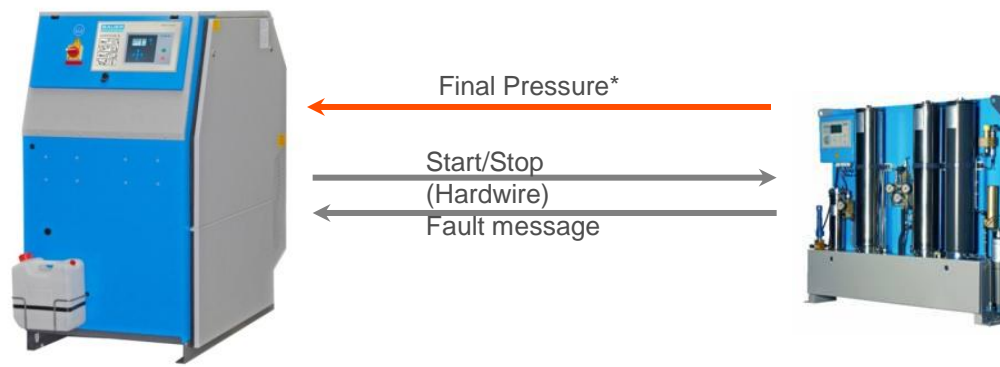
- Final pressure
- Oil pressure
- Intake pressure (gas version only)
- Temperature last stage
- Securus (via CANBUS)
- Motor over-current (indirect by PTC)
- Maintenance intervals

Interface:

- Remote start/stop (dry contact)
- Condensate collecting tank (level switch)
- Collecting fault message
- Fault message (Seccant)
- CANBUS included for
 - Securus +
 - Connection with a Seccant (soon)
- External emergency switch off

› B-CONTROL MICRO – Connection

Verticus 5 – Seccant (hard wire connection):

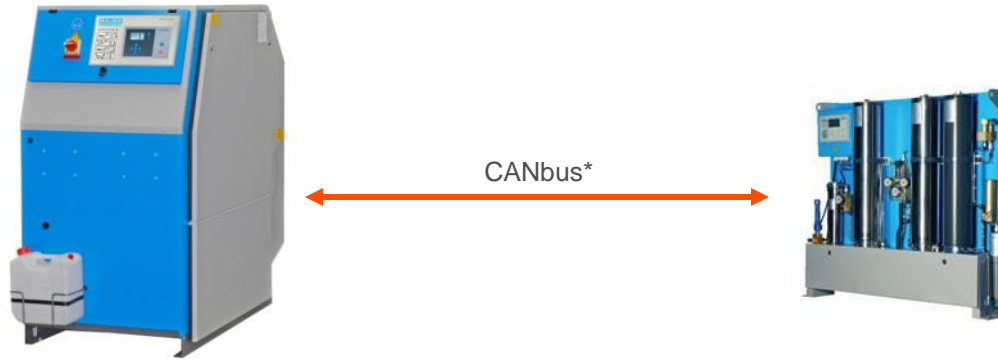


Verticus 5 with
B-CONTROL MICRO

*not possible in case of compressor with intake pressure sensor

› B-CONTROL MICRO – Connection

Verticus 5 – Seccant (CANBUS connection*):



Verticus 5 with
B-CONTROL MICRO

*available soon

› B-CONTROL MICRO – Connection

Verticus 5 – Interconnected operation:



Compressor
B-CONTROL II
(Master)

Start/Stop
(Hardwire) →



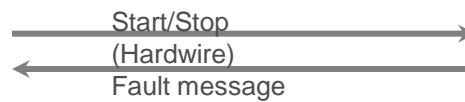
Verticus 5 with
B-CONTROL MICRO
(Slave)

› B-CONTROL MICRO – Connection

Verticus 5 – Interconnected operation:

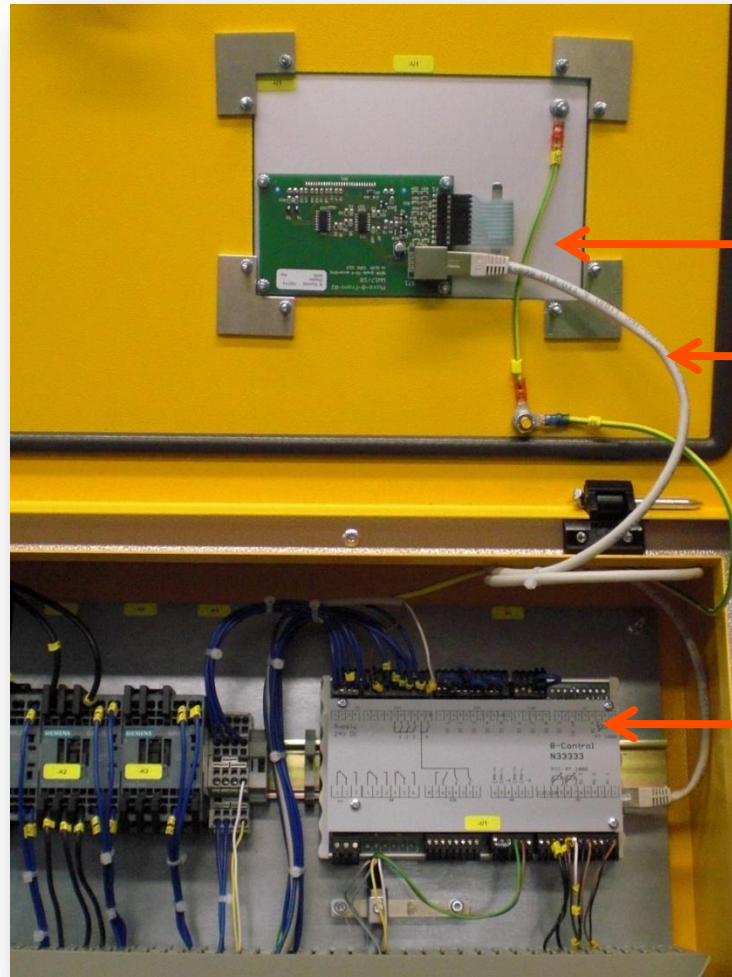


B-CONTROL SUPERIOR



Verticus 5 with
B-CONTROL MICRO
(Slave)

▶ B-CONTROL MICRO



B-CONTROL MICRO

(inside PE-VE)

Display (rear side)

Standard patch cable

B-CONTROL MICRO CPU

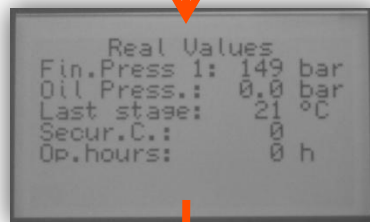
› B-CONTROL MICRO display



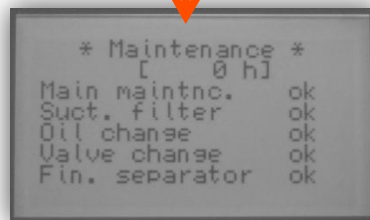
Main Display (compressor stop; fully automatic)



Main Display (compressor running, fully automatic)

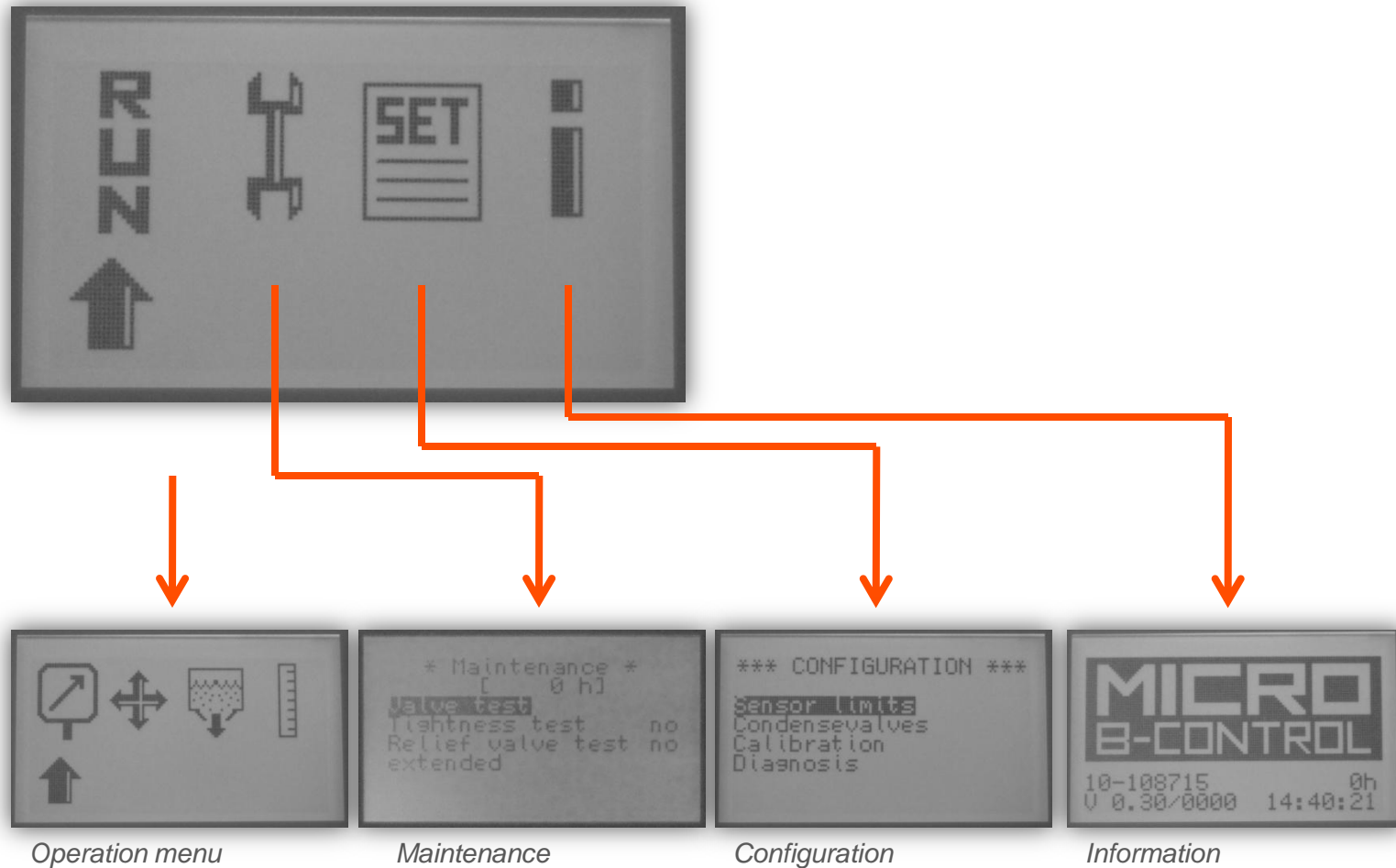


Real Values

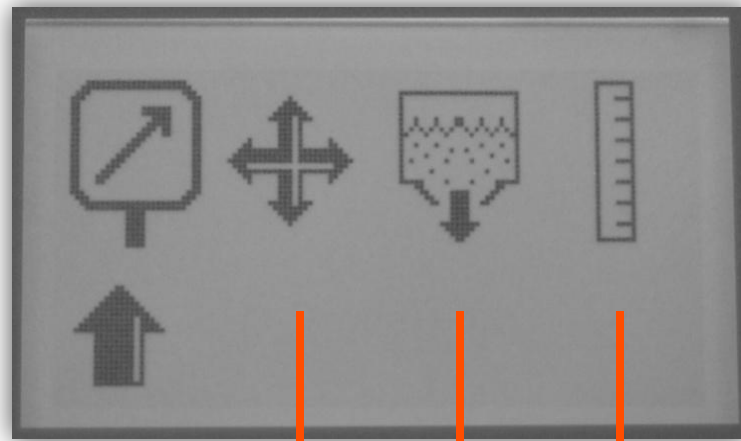


Maintenance information

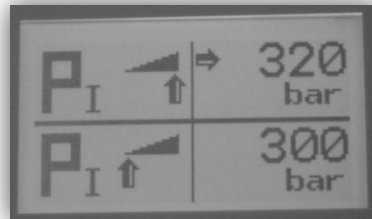
▶ B-CONTROL MICRO display



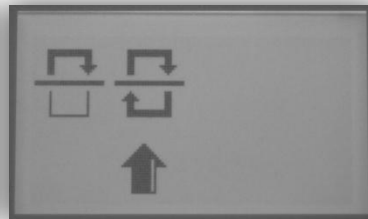
› B-CONTROL MICRO display



Operation menu



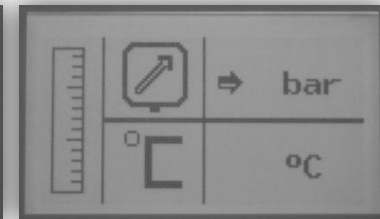
Pressure setting



Semi / fully automatic operation



Condensate valve setting



Units for pressure and temperature

› Product launch

The B-Control Micro will be available as standard control:

Product	Date
PE-VE	02.2011
KAP / V	07.2011
Verticus 5 Industry	07.2011

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